

Claims

- 1 A process for producing paper or paperboard from pulp in the presence of at least one additive, which comprises employing pulp that comprises fibres of which 60 weight-% or below have equal or greater length than 1.68 mm and employing as the at least one additive starch, which has been degraded and cationized to a charge level of 0.36 – 1.46 meq/g.
- 5 2. The process as claimed in claim 1, wherein the additive is added to the pulp prior to web formation.
- 10 3. The process as claimed in claim 2, wherein the amount of the additive is 0.5-5 kg per ton produced paper.
- 15 4. The process as claimed in claim 2, wherein the amount of the additive is 0.5-3 kg per ton produced paper.
- 20 5. The process as claimed in claim 1, wherein 50 weight-% or below of the fibres have equal or greater length than 1.68 mm.
- 25 6. The process as claimed in claim 1, wherein 45 weight-% or below of the fibres have equal or greater length than 1.68 mm.
- 30 7. The process as claimed in claim 1, wherein the starch has been degraded by peroxide oxidation method.
8. The process as claimed in claim 1, wherein the starch has been degraded to a viscosity level of 10 – 500 mPas (5 %, 60 °C, Brookfield).
- 35 9. The process as claimed in claim 1, wherein the starch has been degraded to a viscosity level of 40 – 300 mPas (5 %, 60 °C, Brookfield).
10. The process as claimed in claim 1, wherein the starch has been degraded to a viscosity level of 100– 200 mPas (5 %, 60 °C, Brookfield).
- 40 11. The process as claimed in claim 1, wherein the starch has been cationized with solution cationization method.
12. The process as claimed in claim 1, wherein the starch has been cationized with dry cationization method.
- 45 13. The process as claimed in claim 1, wherein the starch has been cationized to a charge level of 0.36 – 1.10 meq/g.
14. The process as claimed in claim 1, wherein the starch has been cationized to a charge level of 0.72 – 1.46 meq/g.

15. The process as claimed in claim 1, wherein the starch has been cationized to a charge level of 0.72 – 1.10 mEq/g.
16. The process as claimed in claim 1, wherein the starch has been degraded before being cationized.
17. The process as claimed in claim 1, wherein the starch has been cationized before being degraded.
- 10 18. The process as claimed in claim 1, wherein the additive is used together with conventional wet end starch.
19. The process as claimed in claim 18, wherein the additive is dosed before the conventional wet end starch.
- 15 20. A pulp composition for producing paper or paperboard which comprises pulp having fibres of which 60 weight-% or below have equal or greater length than 1.68 mm and a starch additive, which has been degraded and cationized to a charge level of 0.36 – 1.46 meq/g.

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